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**PATENT APPLICATION**

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Date February 3, 2004

In re the Application of

Paul ANUZIS et al.

Group Art Unit: 2863

Application No.: 09/898,008

Examiner: T. Le

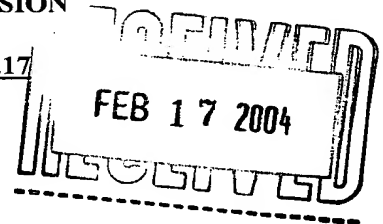
Filed: July 5, 2001

Docket No.: 110023

For: HEALTH MONITORING

**LARGE ENTITY PETITION FOR 1<sup>st</sup> - 3<sup>rd</sup> EXTENSION  
OF TIME UNDER 37 C.F.R. §1.136(a) AND  
TRANSMITTAL OF FEE UNDER 37 C.F.R. §1.17**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450



Sir:

Transmitted herewith is a response to the outstanding Official Action in the above-identified patent application. The shortened statutory period having expired January 3, 2004, an extension of time for a period of ONE month is hereby requested. Attached hereto is our Check No. 150671 in the amount of \$110.00 in payment for:

  X   Extension fee for response within first month pursuant to §1.136(a) (\$110.00)  
       Extension fee for response within second month pursuant to §1.136(a) (\$420.00)  
       Extension fee for response within third month pursuant to §1.136(a) (\$950.00)

The Commissioner is hereby authorized to charge any additional fee or credit any overpayment associated with this communication to Deposit Account No. 15-0461. Two copies of this petition are enclosed.

02/06/2004 HALI11 00000005 09898008

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110.00 0P

Respectfully submitted,

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DEPOSIT ACCOUNT USE  
AUTHORIZATION  
Please grant any extension  
necessary for entry;  
Charge any fee due to our  
Deposit Account No. 15-0461



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Paul ANUZIS et al.

Group Art Unit: 2863

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**REQUEST FOR RECONSIDERATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In reply to the October 3, 2003 Office Action, the period for reply extended to February 3, 2004 by a Petition for Extension of Time filed herewith, reconsideration of the above-identified application is respectfully requested.

Claims 1-18 are pending in this application.

**I. The Claims Define Patentable Subject Matter**

The Office Action rejects claims 1-18 under 35 U.S.C. §102(b) as being anticipated by "Application of a Neural Network in Gas Turbine Control Sensor Fault Detection", Simani et al. (hereinafter "Simani"). The rejection is respectfully traversed.

Applicants' claim 1 relates to monitoring the health of a system by constructing a condition signature from a plurality of condition indicators including a plurality of vibration measurements acquired from the system or one or more vibration measurements in one or more performance parameter measurements acquired from the system, predicting a normal signature from a model defining one or more inter-dependencies between the condition indicators, the normal signature corresponding to a condition signature for a healthy system,

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